

N61165.AR.004790  
CNC CHARLESTON  
5090.3a

COMPLETION REPORT, CHAIN OF CUSTODY AND LABORATORY SIGNATURE SHEETS  
WITH TRANSMITTAL CNC CHARLESTON SC  
3/31/1998  
NAVFAC SOUTHERN



**DEPARTMENT OF THE NAVY**  
SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN  
PORTSMOUTH, VIRGINIA, ENVIRONMENTAL DETACHMENT CHARLESTON  
1899 NORTH HOBSON AVENUE, BUILDING 30  
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

IN REPLY REFER TO:

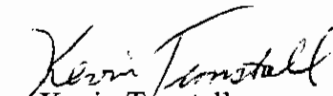
Ser 290  
MAR 31 1998

Mr. Johnny Tapia  
South Carolina Department of Heath  
And Environmental Control  
Bureau of Solid and Hazardous Waste Management  
8901 Farrow Road  
Columbia SC 29201

RE: Completion Report (Chain of Custody & laboratory signature sheets)

Dear Mr. Tapia

Enclosed is the Chain of Custody and laboratory signature sheets as requested by Mr. Bergstrand. Please insert the applicable pages in each Completion Report. Inquires should be directed to Jed Heames at 743-6306 ext. 123 or Kevin Tunstall at ext. 227.

  
Kevin Tunstall

Distribution:  
USEPA (Spariosu)  
SDIV (Batten)  
EnSafe (Haverkost)  
SCDHEC (Bergstrand)

NPI NC 00196

General Engineering Laboratories, Inc.  
 2040 Savage Road  
 Charleston, South Carolina 29414  
 P.O. Box 30712  
 Charleston, South Carolina 29417  
 (803) 556-8171

## CHAIN OF CUSTODY RECORD

9702574

Page 1 of 1

Client Name/Facility Name SPORTENYDET CHASN						SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods																Use F or P in the boxes to indicate whether sample was filtered and/or preserved	
Collected by/Company T. Lewis SPORTENYDET CHASN																						CCL 25907	
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
SPORT 364-1	2/7/97	1000				X	2													X			NBCK 696J 0001 01
SPORT 364-2	2/7/97	1030				X	2													X			NBCK 696J 0002 01
SPORT 364-3	2/7/97	1115				X	2													X			NBCK 696J 0003 01
DETECTION Limits: <1 ppm																							

Relinquished by: J. J. Lewis	Date: 2/27/97	Time: 1330	Received by: W. R. Hiers, Jr.	Relinquished by: W. R. Hiers, Jr.	Date: 2/27/97	Time: 1429	Received by: W. R. Hiers, Jr.
Relinquished by: W. R. Hiers, Jr.	Date: 2/27/97	Time: 1430	Received by lab by: D. J. Lewis	Date: 2/27/97	Time: 1430	Remarks:	

White = sample collected    Yellow = file    Pink = with report



**General Engineering Labo:** Inc.  
2040 Savage Road  
Charleston, South Carolina 29407  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

## CHAIN OF CUSTODY RECORD

Page 1 of 1

### 3 DAY TURNAROUND

[illegible]

**White = sample collector      Yellow = file      Pink = with report**

## CHAIN OF CUSTODY RECORD

**White = sample collector      Yellow = file      Pink = with report**

Page 1 of 2

## CHAIN OF CUSTODY RECORD

9710121

Client Name/Facility Name SPORTEN V DETCHASN				SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods														Use F or P in the boxes to indicate whether sample was filtered and/or preserved			
Collected by/Company SPORTEN V DETCHASN				# OF CONTAINERS	pH conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	SEMI-VOLATILES	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
SAMPLE ID	DATE	TIME	WELL																		
-01	SPORT 536-1	10/6/97	1145	X	X													X			NBC 6965 2010P1
-02	SPORT 536-2	10/6/97	1147	X	X													X			NBC 6965 2011P1
-03	SPORT 536-3	10/6/97	1149	X	X													X			NBC 6965 2012P1
-04	SPORT 536-4	10/6/97	1151	X	X													X			NBC 6965 2013P1
-05	SPORT 536-5	10/6/97	1153	X	X													X			NBC 6965 2014P1
-06	SPORT 536-6	10/6/97	1155	X	X													X			NBC 6965 2015P1
-07	SPORT 536-7	10/6/97	1158	X	X													X			NBC 6965 2016P1
-08	SPORT 536-8	10/6/97	1201	X	X													X			NBC 6965 2017P1
-09	SPORT 536-9	10/6/97	1203	X	X													X			NBC 6965 2018P1
-10	SPORT 536-10	10/6/97	1205	X	X													X			NBC 6965 2019P1
-11	SPORT 536-11	10/6/97	1208	X	X													X			NBC 6965 2020P1
-12	SPORT 536-12	10/6/97	1211	X	X							X									NBC 6965 2021P1
-13	SPORT 536-13	10/6/97	1221	X	X							X									NBC 6965 2022P1
Relinquished by: <u>S. L. Senter</u>				Date: <u>10/6/97</u>	Time: <u>1325</u>	Received by: <u>[Signature]</u>				Relinquished by: <u>[Signature]</u>				Date: <u>10/6/97</u>	Time: <u>1510</u>	Received by: <u>[Signature]</u>					
Relinquished by: <u>[Signature]</u>				Date: <u>10/6/97</u>	Time: <u>1540</u>	Received by lab by: <u>Karen Blakemey</u>				Date: <u>10/6/97</u>	Time: <u>1540</u>	Remarks:									

White = collector Yellow = file Pink = with report

[illegible]

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3 Day Turnaround

General Engineering Labor, Inc.  
2040 Savage Road  
Charleston, South Carolina 29407  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

# CHAIN OF CUSTODY RECORD

Page 1 of 1

9710822

Client Name/Facility Name				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																	Use F or P in the boxes to indicate whether sample was filtered and/or preserved					
SPORTS VDET CHASN																					COL 29744					
Collected by/Company																					Remarks					
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	Metals - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type				
-01 SPORT 560-1	10/30/97	0935	X	X			1							X											NACK 6965002602	.1
-02 SPORT 560-2	10/30/97	0938	X	X			1							X											NACK 6965002702	.1
-03 SPORT 560-3	10/30/97	0940	X	X			1							X											NACK 6965002802	.1
-04 SPORT 560-4	10/30/97	0943	X	X			1													X					NACK 6965002901	.2
-05 SPORT 560-5	10/30/97	0945	X	X			1													X					NACK 6965003001	.2
-06 SPORT 560-6	10/30/97	0948	X	X			1													X					NACK 6965003101	.2
-07 SPORT 560-7	10/30/97	1145	X	X			1													X					NACK 6965003201	.2
-08 SPORT 560-8	10/30/97	1147	X	X			1													X					NACK 6965003301	.2
-09 SPORT 560-9	10/30/97	1150	X	X			1													X					NACK 6965003401	.2
-10 SPORT 560-10	10/30/97	1154	X	X			1													X					NACK 6965003501	.2
-11 SPORT 560-11	10/30/97	1156	X	X			1													X					NACK 6965003601	.2
-12 SPORT 560-12	10/30/97	1201	X	X			1													X					NACK 6965003701	.2
-13 SPORT 560-13	10/30/97	1158	X	X			1													X					NACK 6965003801	.2
Relinquished by: J. L. Benter				Date: 10/30/97	Time: 1307	Received by: Victor Washington				Relinquished by: Victor Washington				Date: 10/30/97	Time: 1500	Received by: Catharine Hill										
Relinquished by: Catharine Hill				Date: 10/30/97	Time: 1520	Received by lab by: Karen Blakeney				Date: 10/30/97	Time: 1520	Remarks:														

White = sample collector

Yellow = file

Pink = with report

KBB

Three day Turn around

## CHAIN OF CUSTODY RECORD

971564

Page 1 of 1

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9612094

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[illegible]

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Page 1 of 1

9701200

GW  
~~GW~~  
.1  
.2

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9701340

Page 1 of 1[illegible]

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NPW 3196

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2040 Savage Road  
Charleston, South Carolina 29414  
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## CHAIN OF CUSTODY RECORD

Page 1 of 1

9701418

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WC 00196

1 2

General Engineer  
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Charleston, South Carolina 29414  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

# CHAIN OF CUSTODY RECORD

Page 1 of 1

7606299

Client Name/Facility Name <u>SPORT ENV DET CHASN</u>							SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods															Use P or U in the boxes to indicate whether sample was filtered or not preserved <u>21865</u>		
Collected by/Company <u>SPORT ENV DET CHASN</u>																								
SAMPLE ID	DATE	TIME	WELL	SOIL	CONC	GRAB	# OF CONTAINERS	pH - conductivity	TOC/DIVC	TOX	Chloride, Fluoride, Sulfide	Nitrate/Nitrite	VOC - Specify Method Required	SEMI-VOLATILES	Pesticide	Herbicide	Total Phenol	Acid Extractables	AN Extractables	PCB's	Cyanide	Coliform - specify type	PAH	Remarks
01 SPORT0077-1	6/14/96	1447	X	X			Z							X									X	NBCE 0445000100
02 SPORT0077-2	6/14/96	1500	X	X			Z							X									X	NBCE 0445000200
03 SPORT0077-3	6/14/96	1435	X	X			Z							X									X	NBCE 0445000300
04 SPORT0077-4	6/14/96	1420	X	X			Z							X									X	NBCE 0445000400
																							METALS:	
																							1) ALUMINUM	
																							2) ARSENIC	
																							3) BERYLLIUM	
																							4) CHROMIUM	
																							5) MANGANESE	
																							6) THALLIUM	
Relinquished by: <u>[Signature]</u>			Date: <u>6/14/96</u>	Time: <u>1525</u>	Received by: <u>[Signature]</u>			Date: <u>6/17/96</u>	Time: <u>1450</u>	Relinquished by: <u>[Signature]</u>			Date: <u>6/17/96</u>	Time: <u>1459</u>	Received by: <u>[Signature]</u>									

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Charleston, South Carolina 29405  
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Page 1 of 1

9708105

[illegible]

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**Yellow = file**

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NPWC 0014 1

— 3-DAY TURN AROUND —  
(PAH ONLY)

## CHAIN OF CUSTODY RECORD

Page 1 of 1

9710661

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Charleston, South Carolina 29417  
(803) 556-8171

Client Name/Facility Name ENV DET CHASN				SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods																	Use F or P in the boxes to indicate whether sample was filtered and/or preserved	
Collected by/Company ENV DET CHASN				# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method Required	PCRA METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	PAH	TPH	Remarks
SAMPLE ID	DATE	TIME	WELL																			
SPORT 0557-1	10/24/97	0900	X	X	1						X										X	NBCF6115000901
SPORT 0557-2	10/24/97	0915	X	X	1															X	NBCF6115001001	
																						DETECTION LIMITS:
																						0.088 PPM <sup>M</sup> (PAH)
																						0.43 PPM <sup>M</sup> (PCRA METALS) AS
Relinquished by:	Date:	Time:	Received by:				Relinquished by:	Date:	Time:	Received by:												
Michael P. Zwick	10/24/97	1000	Vivian W. W. W.				Vivian W. W. W.	10/24/97	1146	Vivian W. W. W.												
Relinquished by:	Date:	Time:	Received by lab by:				Date:	Time:	Remarks:													
Catherine H.	10/24/97	1525	Karen Blakemey				10/24/97	1525														

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NPW 3/97

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## CHAIN OF CUSTODY RECORD

Page 1 of 1

9710275

Client Name/Facility Name							SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																Use F or P in the boxes to indicate whether sample was filtered and/or preserved		
SPORTENVDETCHASN																							CCL 29391		
Collected by/Company																							Remarks		
SPORTENVDETCHASN																									
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method Required	PCRA METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Caliform - specify type	PAH	APP IX VOC	
SPORT0544-1	10/10/97	0830	X				2							X									X		NORTH NACF611S000301
SPORT0544-2	10/10/97	0850	X				2							X									X		SOUTH NACF611S000401
SPORT0544-3	10/10/97	0855	X				2							X									X		EAST NACF611S000501
SPORT0544-4	10/10/97	0840	X				2							X									X		WEST NACF611S000601
SPORT0544-5	10/10/97	0910	X				2							X									X		BOTTOM E NACF611S000701
SPORT0544-6	10/10/97	0905	X				2							X									X		BOTTOM W NACF611S000801
SPORT0544-7	10/10/97	0730	X				1																X		TANK ZSA
																									* RCRA METALS
																									PAH: Low limits

Relinquished by: Michael P. [Signature] Date: 10/10/97 Time: 1030 Received by: Fred D. [Signature] Relinquished by: Fred D. [Signature] Date: 10/10/97 Time: 1440 Received by: Catherine [Signature]

Relinquished by: Catherine [Signature] Date: 10/10/97 Time: 1505 Received by lab by: Karen Blakemore Date: 10/10/97 Time: 1505 Remarks:

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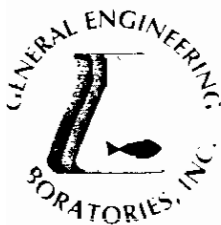
Page 1 of 1

9702540

General L.  
2040 Savage Ct.  
Charleston, South Carolina  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

Client Name/Facility Name				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods															Use I or P in the boxes to indicate whether sample was filtered and/or preserved						
Collected by/Company																									
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	EDX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	HEAVY METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	TPH	Cyanide	Coliform - specify type	PAH	TELE MEALS	Remarks
SPORT 358-1	2/25/97	14:42	X	X	X		5			X				X							X		X		NBCF 611 S 0001P1
Relinquished by: <i>Math W. J.</i>				Date: <i>2/25/97</i>	Time: <i>15:03</i>	Received by: <i>John B. [unclear]</i>				Relinquished by: <i>John B. [unclear]</i>				Date: <i>2/25/97</i>	Time: <i>1450</i>	Received by: <i>John B. [unclear]</i>									
Relinquished by: <i>Rie R. [unclear]</i>				Date: <i>2/26/97</i>	Time: <i>15:10</i>	Received by lab for: <i>Diome [unclear]</i>				Date: <i>2/26/97</i>				Time: <i>1510</i>	Remarks:										

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## GENERAL ENGINEERING LABORATORIES

*Meeting today's needs with a vision for tomorrow*

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 21, 1997

Page 3 of 3

Sample ID : SPORT0334-1

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

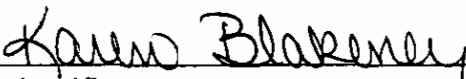
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

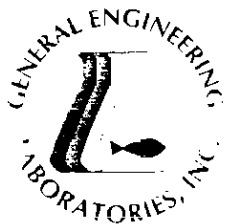
U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed  
in accordance with General Engineering Laboratories  
standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
Reviewed By





## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

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FL	E87156/87294	E87472/87458
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TN	02934	02934

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SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 21, 1997

Page 2 of 2

Sample ID : SPORT0334-2

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:


ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

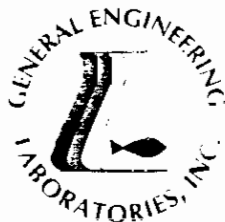
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Reviewed By





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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 21, 1997

Page 2 of 2

Sample ID : SPORT0334-3

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	78.0	(43.0 - 108.)
Nitrobenzene-d5	M610	72.6	(35.0 - 111.)
p-Terphenyl-d14	M610	71.6	(33.0 - 125.)
Bromofluorobenzene	BTEX-8260	98.5	(73.8 - 128.)
Dibromofluoromethane	BTEX-8260	96.0	(63.9 - 139.)
Toluene-d8	BTEX-8260	96.6	(77.1 - 121.)
Bromofluorobenzene	NAP-8260	98.5	(73.8 - 128.)
Dibromofluoromethane	NAP-8260	96.0	(63.9 - 139.)
Toluene-d8	NAP-8260	96.6	(77.1 - 121.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3510

### Notes:

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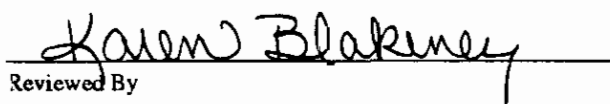
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Reviewed By



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9702250

[illegible]

**Pink = with report**



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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 06, 1997

Page 3 of 3

Sample ID : SPORT0352-1

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:


ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

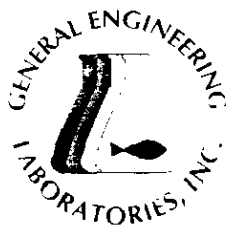
\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed  
in accordance with General Engineering Laboratories  
standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
Reviewed By







# GENERAL ENGINEERING LABORATORIES

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106  
Contact: Mr. Bill Hiers  
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 06, 1997

Page 3 of 3

Sample ID : SPORT0352-2

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

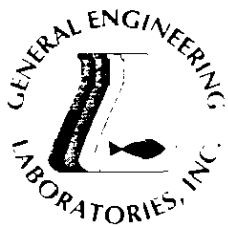
U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Reviewed By





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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 06, 1997

Page 3 of 3

Sample ID : SPORT0352-3

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

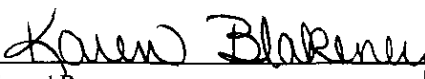
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 06, 1997

Page 3 of 3

Sample ID : SPORT0352-4

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

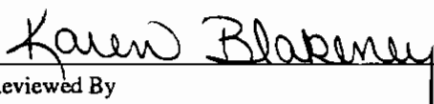
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

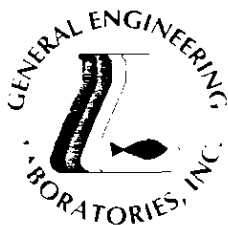
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106  
Contact: Mr. Bill Hiers  
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 06, 1997

Page 2 of 2

Sample ID : SPORT0352-5

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:

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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed  
in accordance with General Engineering Laboratories  
standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By



1 C00196

General Engineering & Construction, Inc.  
2040 Savage Road  
Charleston, South Carolina 29417  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

# CHAIN OF CUSTODY RECORD

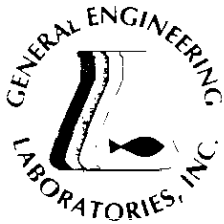
9702484

Page 1 of 1

Client Name/Facility Name SPORTENV DETCHASN				SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods																		Use L or P in the boxes to indicate whether sample was filtered and/or preserved	
Collected by/Company SPORTENV DETCHASN																						CCL 25854	
SAMPLE ID	DATE	TIME	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specific Method required	PESTICIDES	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	TPH	Cyanide	Coliform - specific type	BTEX+NAP	PAH	Remarks			
SPORT0352-1	2/24/97	12:58	4						X						X			X	X	NBCE5745000304			
SPORT0352-2	2/24/97	12:10	4						X						X			X	X	NBCE5745000404			
SPORT0352-3	2/24/97	13:25	4						X						X			X	X	NBCE5745000504			
SPORT0352-4	2/24/97	13:37	4						X						X			X	X	NBCE5745000604			
SPORT0352-5	2/24/97	0935	1															X		NBCE574T000700			
NOTE: SEE ATTACHED SHEET FOR DETECTION LIMITS																							

Relinquished by: Michael P. R. L.	Date: 2/24/97	Time: 1405	Received by: W. R. Hiers, Jr.	Relinquished by: W. R. Hiers, Jr.	Date: 2/24/97	Time: 1457	Received by: J. L. Lockhart
Relinquished by: J. L. Lockhart	Date: 2/24/97	Time: 1600	Received by lab by: Karen Blakeney	Date: 2/24/97	Time: 1600	Remarks:	

White = sample collector    Yellow = file    Pink = with report



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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 16, 1997

Page 3 of 3

Sample ID : SPORT0411-1

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

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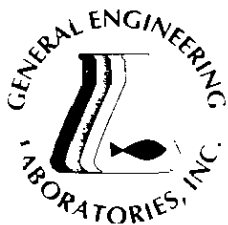
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 16, 1997

Page 3 of 3

Sample ID : SPORT0411-2

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

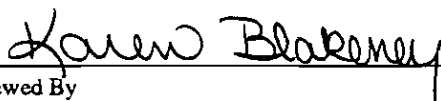
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

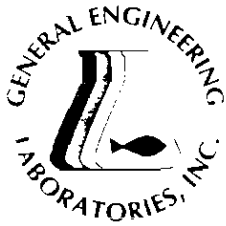
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 16, 1997

Page 3 of 3

Sample ID : SPORT0411-3

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

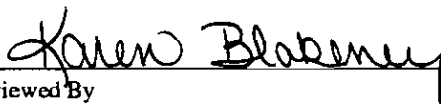
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Reviewed By







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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 16, 1997

Page 3 of 3

Sample ID : SPORT0411-4

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

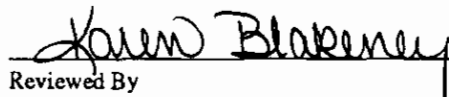
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## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 16, 1997

Page 3 of 3

Sample ID : SPORT0411-5

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

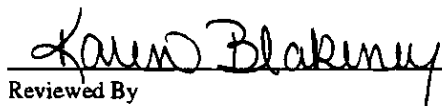
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 14, 1997

Page 2 of 2

Sample ID : SPORT0411-6

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:

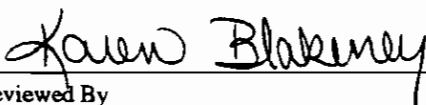
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
Reviewed By



NPWC 00197

## CHAIN OF CUSTODY RECORD

General Engineering Laboratories, Inc.  
2040 Savage Road  
Charleston, South Carolina 29414  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

Page 1 of 1

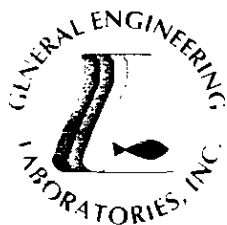
9704187

Client Name/Facility Name <b>SPORTENYDETHASN</b>							SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods															Use L or P in the boxes to indicate whether sample was filtered and/or preserved				
Collected by/Company <b>SPORTENYDETHASN</b>																						CCL 26565				
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specific Method required	PCB METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	TPH	Cyanide	Coliform - specify type	PAH	BTEX NAP	Remarks	
01 Sport 0411-1	4/8/97	1300	X	X			4							X						X			X	X	NBCE 574S000901	.1 South wall
02 Sport 0411-2	4/8/97	1315	X	X			4						X							X			X	X	NBCE 574S001001	.1 West wall
03 Sport 0411-3	4/8/97	1325	X	X			4						X							X			X	X	NBCE 574S001101	.1 North wall
04 Sport 0411-4	4/8/97	1335	X	X			4						X							X			X	X	NBCE 574S001201	.1 East wall
05 Sport 0411-5	4/8/97	1335	X	X			4						X							X			X	X	NBCE 574C001301 NBCE 574S001301 m.w.j.	.1 Duplex
06 Sport 0411-6	4/8/97	1300	X	X			1																X	X	NBCE 574T001401	.2 Tail Bank
DETECTION LIMITS:																										
BTEX - 200 PPM																										
NAP - 1000 PPM																										
PAH - 0.78 PPM																										
METALS - 1 PPM																										
TPH - 50 PPM																										
Relinquished by:			Date:	Time:	Received by:			Relinquished by:			Date:	Time:	Received by:													
M. R. Moore			4/8/97	1425	W. R. Hines, Jr.			W. R. Hines, Jr.			4/8/97	1435	P. R. Moore													
Relinquished by:			Date:	Time:	Received by:			Relinquished by:			Date:	Time:	Remarks:													
M. R. Moore			4/8/97	1454	D. D. Moore			D. D. Moore			4/8/97	1454	1500													

White = sample collector

Yellow = file

Pink = with report



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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 11, 1997

Page 2 of 2

Sample ID : SPORT0360-1

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:

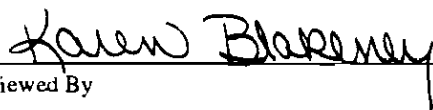
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed  
in accordance with General Engineering Laboratories  
standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
Reviewed By



9702558

General Engineering Laboratories, Inc.  
2040 Savage Road  
Charleston, South Caro  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

**White = sample collector      Yellow = file      Pink = with report**

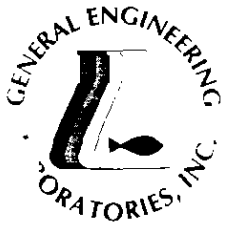
$$\frac{1}{2}$$

General Engineering Laboratories, Inc.  
2040 Savage Road  
Charleston, South Carolina 29407  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

Page 1 of 1

9707457

**White = sample collector      Yellow = file      Pink = with report**



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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: July 30, 1997

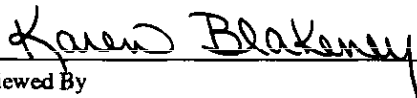
Page 2 of 2

Sample ID : SPORT0484-2

**M = Method**

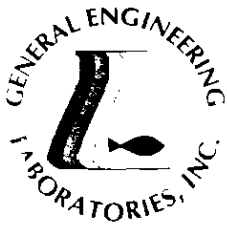
**Method-Description**

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
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# GENERAL ENGINEERING LABORATORIES

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: July 30, 1997

Page 3 of 3

Sample ID : SPORT0484-1


M = Method	Method-Description
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

- indicates that the analyte was not detected at a concentration greater than the detection limit.
- indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
- U indicates that the analyte was not detected at a concentration greater than the detection limit.
- \* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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NPWC 00197

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 2040 Savage Road  
 Charleston, South Carolina 29414  
 P.O. Box 30712  
 Charleston, South Carolina 29417  
 (803) 556-8171

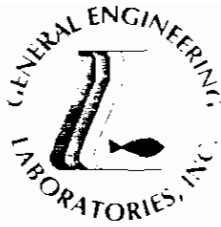
## CHAIN OF CUSTODY RECORD

9703505

Page 1 of 1

Client Name/Facility Name SPORTENV DETCHASN						SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods																		Use F or P in the boxes to indicate whether sample was filtered and/or preserved			
Collected by/Company SPORTENV DETCHASN WSMALLS																								CCL 26335			
SAMPLE ID	DATE	TIME	WELL	SOIL	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	PESTICIDES - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	PH	Coliform - specify type	BTEX	PAH	Remarks			
01 SPORT 386-1	3/24/97	0835	X	X		4							X								X		X	X	NBCI 7075 0001 01		
02 SPORT 386-2	3/24/97	0906	X	X		4							X								X		X	X	NBCI 7075 0002 01		
03 SPORT 386-3	3/24/97	0915	X	X		4							X								X		X	X	NBCI 7075 0003 01		
04 SPORT 386-4	3/24/97	0925	X	X		4							X								X		X	X	NBCI 7075 0004 01		
05 SPORT 386-5	3/24/97	0940	X	X		4							X								X		X	X	NBCI 7075 0005 01		
06 SPORT 386-6	3/24/97	0745	X	X		1																X			NBCI 7075 0006 01		
																								NOTE: SEE ATTACHED SHEET FOR ACCEPTABLE LIMITS.			
Relinquished by: William W. Small						Date: 3/24/97	Time: 1000	Received by: J. Blakeney						Relinquished by: J. Blakeney						Date: 3/24/97	Time: 1530	Received by: Catherine L.					
Relinquished by: Catherine L.						Date: 3-24-97	Time: 1555	Received by lab by: Karen Blakeney						Date: 3-24-97						Time: 1555	Remarks:						

White = sample collector    Yellow = file    Pink = with report



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TN	02934	02934

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1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106  
Contact: Mr. Bill Hiers  
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 2 of 2

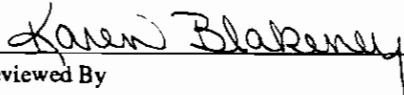
Sample ID : SPORT0386-6

### M = Method

### Method-Description

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1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 3 of 3

Sample ID : SPORT0386-5

M = Method	Method-Description
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

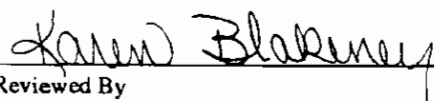
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TN	02934	02934

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1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 3 of 3

Sample ID : SPORT0386-4

M = Method	Method-Description
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

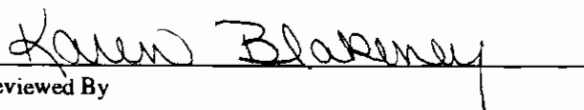
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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TN	02934	02934

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1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 3 of 3

Sample ID : SPORT0386-3

M = Method	Method-Description
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

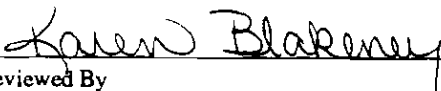
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

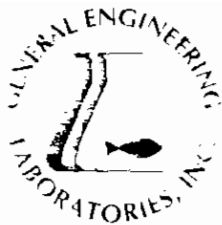
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TN	02934	02934

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1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 3 of 3

Sample ID : SPORT0386-2

M = Method	Method-Description
M 6	EPA 7471
M 7	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:

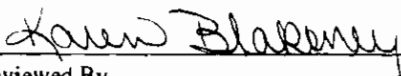
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1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 3 of 3

Sample ID : SPORT0386-1

M = Method	Method-Description
M 6	EPA 7471
M 7	EPA 3050

### Notes:

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Reviewed By





NPWCC00196

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2040 Savage Road  
Charleston, South Car 4  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

## CHAIN OF CUSTODY RECORD

9703404

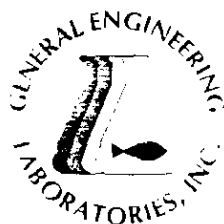
Page 1 of 1

Client Name/Facility Name SPORT ENV DETCHASN			SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods														Use F or P in the boxes to indicate whether sample was filtered and/or preserved									
Collected by/Company SPORT ENV DETCHASN																	CCL 26269									
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	SEE REMARKS METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	TRN	Coliform - specify type	BTX	PAH	Remarks	
01 SPORT 380-1	3/19/97	1045	X	X			5							X							X	X		X	X	NBCH7085000301 .1
02 SPORT 380-2	3/19/97	1104	X	X			5							X							X	X		X	X	NBCH7085000401 .1
03 SPORT 380-3	3/19/97	1115	X	X			5							X							X	X		X	X	NBCH7085000501 .1
04 SPORT 380-4	3/19/97	0930	X	X			1																X			NBCH7085000601 .2
																								NOTE: SEE ATTACHED SHEET FOR LIMITS.		
																								METALS:		
																								1) RCRA METALS		
																								2) ANTIMONY		
																								3) BERYLLIUM		
																								4) NICKEL		
Relinquished by:			Date:	Time:	Received by:			Relinquished by:			Date:	Time:	Received by:													
W. W. Amick			3/17/97	1250	Donna Francis			J. J. & K. L. Smith			3/19/97	1340	Randy Belp													
Relinquished by:			Date:	Time:	Received by lab by:			Date:	Time:	Remarks:																
					Donna Francis			3/19/97	1410																	

White = sample collector

Yellow = file

Pink = with report



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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 1 of 3

Sample ID : SPORT0380-1  
Lab ID : 9703404-01  
Matrix : Soil  
Date Collected : 03/19/97  
Date Received : 03/19/97  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Volatile Organics</b>											
<i>BTEX - 4 items</i>											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	RMB	03/26/97	1334	99708	
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
<b>Extractable Organics</b>											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	0.00	1670	3330	ug/kg	10.	DLW	03/27/97	1820	99514	2
Acenaphthylene	U	0.00	1670	3330	ug/kg	10.					
Anthracene	U	0.00	1670	3330	ug/kg	10.					
Benzo(a)anthracene	U	0.00	1670	3330	ug/kg	10.					
Benzo(a)pyrene	U	0.00	1670	3330	ug/kg	10.					
Benzo(b)fluoranthene	U	0.00	1670	3330	ug/kg	10.					
Benzo(ghi)perylene	U	0.00	1670	3330	ug/kg	10.					
Benzo(k)fluoranthene	U	0.00	1670	3330	ug/kg	10.					
Chrysene	U	0.00	1670	3330	ug/kg	10.					
Dibenzo(a,h)anthracene	U	0.00	1670	3330	ug/kg	10.					
Fluoranthene	U	0.00	1670	3330	ug/kg	10.					
Fluorene	U	0.00	1670	3330	ug/kg	10.					
Indeno(1,2,3-c,d)pyrene	U	0.00	1670	3330	ug/kg	10.					
Naphthalene	U	0.00	1670	3330	ug/kg	10.					
Phenanthrene	U	0.00	1670	3330	ug/kg	10.					
Pyrene	U	0.00	1670	3330	ug/kg	10.					
<i>PCB analysis - 7 items</i>											
PCB-1016	U	0.00	32.9	41.6	ug/kg	10.	JPA	03/22/97	0416	99445	3
PCB-1221	U	0.00	32.9	41.6	ug/kg	10.					
PCB-1232	U	0.00	32.9	41.6	ug/kg	10.					
PCB-1242	U	0.00	32.9	41.6	ug/kg	10.					

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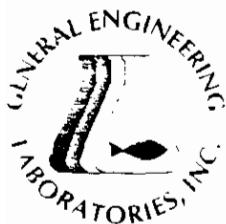
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\*9703404-01\*



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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 2 of 3

Sample ID : SPORT0380-1

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
PCB-1248	U	0.00	32.9	41.6	ug/kg	10.					
PCB-1254	U	0.00	32.9	41.6	ug/kg	10.	JPA	03/22/97	0416	99445	3
PCB-1260	U	0.00	32.9	41.6	ug/kg	10.					
<b>Metals Analysis</b>											
Mercury	J	0.0708	0.0149	0.200	mg/kg	1.0	RMJ	03/27/97	1655	99548	N
Silver	U	-5.36	40.0	944	ug/kg	2.0	MBL	03/28/97	1239	99451	4
Arsenic		1440	260	944	ug/kg	2.0					
Barium		15100	23.3	944	ug/kg	2.0					
Beryllium	J	140	12.7	472	ug/kg	2.0					
Cadmium		1660	19.7	472	ug/kg	2.0					
Chromium		30000	58.6	944	ug/kg	2.0					
Nickel		4740	94.0	944	ug/kg	2.0					
Lead		20300	129	472	ug/kg	2.0					
Antimony	U	128	174	944	ug/kg	2.0					
Selenium	J	423	215	472	ug/kg	2.0					
<b>General Chemistry</b>											
Total Rec. Petro. Hydrocarbons		3120	10.0	50.0	mg/kg	1.0	SLR	03/25/97	1000	99658	5

### The following prep procedures were performed:

GC/MS Base/Neutral Compounds

PCB's

Mercury

TRACE

MCS 03/25/97 1500 99514 6

GWL 03/20/97 1652 99445 6

CRB 03/21/97 2130 99548 7

DVW 03/21/97 1930 99451 8

### Comments:

Volatile Organics contained matrix interferences.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)

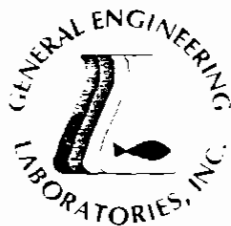
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\*9703404-01\*



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TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 3 of 3

Sample ID : SPORT0380-1

Surrogate Recovery	Test	Percent%	Acceptable Limits
4CMX	PCB	130.	(36.5 - 172.)
Bromofluorobenzene	BTEX-8260	109.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	116.	(63.4 - 136.)
Toluene-d8	BTEX-8260	100.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 8080
M 4	EPA 6010A
M 5	EPA 9071
M 6	EPA 3550
M 7	EPA 7471
M 8	EPA 3050

### Notes:

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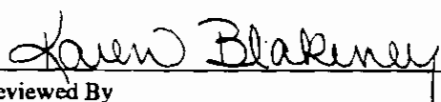
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

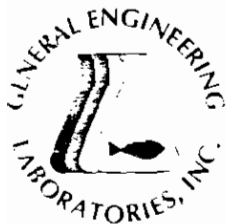
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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 1 of 3

Sample ID : SPORT0380-2  
Lab ID : 9703404-02  
Matrix : Soil  
Date Collected : 03/19/97  
Date Received : 03/19/97  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Volatile Organics</b>											
<i>BTEX - 4 items</i>											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	RMB	03/25/97	1718	99708	
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
<b>Extractable Organics</b>											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	0.00	1620	3240	ug/kg	10.	DLW	03/27/97	1852	99514	2
Acenaphthylene	U	0.00	1620	3240	ug/kg	10.					
Anthracene	U	0.00	1620	3240	ug/kg	10.					
Benzo(a)anthracene	U	0.00	1620	3240	ug/kg	10.					
Benzo(a)pyrene	U	0.00	1620	3240	ug/kg	10.					
Benzo(b)fluoranthene	U	0.00	1620	3240	ug/kg	10.					
Benzo(ghi)perylene	U	0.00	1620	3240	ug/kg	10.					
Benzo(k)fluoranthene	U	0.00	1620	3240	ug/kg	10.					
Chrysene	U	0.00	1620	3240	ug/kg	10.					
Dibenzo(a,h)anthracene	U	0.00	1620	3240	ug/kg	10.					
Fluoranthene	U	0.00	1620	3240	ug/kg	10.					
Fluorene	U	0.00	1620	3240	ug/kg	10.					
Indeno(1,2,3-c,d)pyrene	U	0.00	1620	3240	ug/kg	10.					
Naphthalene	U	0.00	1620	3240	ug/kg	10.					
Phenanthrene	U	0.00	1620	3240	ug/kg	10.					
Pyrene	U	0.00	1620	3240	ug/kg	10.					
<i>PCB analysis - 7 items</i>											
PCB-1016	U	0.00	33.2	41.6	ug/kg	10.	JPA	03/22/97	0452	99445	3
PCB-1221	U	0.00	33.2	41.6	ug/kg	10.					
PCB-1232	U	0.00	33.2	41.6	ug/kg	10.					
PCB-1242	U	0.00	33.2	41.6	ug/kg	10.					

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# GENERAL ENGINEERING LABORATORIES

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 2 of 3

Sample ID		: SPORT0380-2									
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
PCB-1248	U	0.00	33.2	41.6	ug/kg	10.					
PCB-1254	U	0.00	33.2	41.6	ug/kg	10.	JPA	03/22/97	0452	99445	3
PCB-1260	U	0.00	33.2	41.6	ug/kg	10.					
<b>Metals Analysis</b>											
Mercury	J	0.0441	0.0162	0.200	mg/kg	1.0	RMJ	03/27/97	1657	99548	N
Silver	J	77.5	41.6	980	ug/kg	2.0	MBL	03/28/97	1244	99451	4
Arsenic		2380	270	980	ug/kg	2.0					
Barium		14600	24.2	980	ug/kg	2.0					
Beryllium	J	195	13.2	490	ug/kg	2.0					
Cadmium		1340	20.5	490	ug/kg	2.0					
Chromium		25200	60.9	980	ug/kg	2.0					
Nickel		6070	97.6	980	ug/kg	2.0					
Lead		13600	134	490	ug/kg	2.0					
Antimony	U	164	181	980	ug/kg	2.0					
Selenium	J	475	223	490	ug/kg	2.0					
<b>General Chemistry</b>											
Total Rec. Petro. Hydrocarbons		1670	10.0	50.0	mg/kg	1.0	SLR	03/25/97	1000	99658	5

### The following prep procedures were performed:

GC/MS Base/Neutral Compounds  
 PCB's  
 Mercury  
 TRACE

MCS 03/25/97 1500 99514 6  
 GWL 03/20/97 1652 99445 6  
 CRB 03/21/97 2130 99548 7  
 DVW 03/21/97 1930 99451 8

### Comments:

Volatile Organics contained matrix interferences.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	1058
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 3 of 3

Sample ID : SPORT0380-2

Surrogate Recovery	Test	Percent%	Acceptable Limits
4CMX	PCB	116.	(36.5 - 172.)
Bromofluorobenzene	BTEX-8260	110.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	113.	(63.4 - 136.)
Toluene-d8	BTEX-8260	109.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 8080
M 4	EPA 6010A
M 5	EPA 9071
M 6	EPA 3550
M 7	EPA 7471
M 8	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

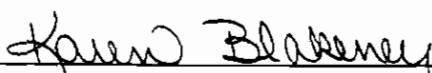
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed  
in accordance with General Engineering Laboratories  
standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
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# GENERAL ENGINEERING LABORATORIES

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 1 of 3

Sample ID : SPORT0380-3  
Lab ID : 9703404-03  
Matrix : Soil  
Date Collected : 03/19/97  
Date Received : 03/19/97  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Volatile Organics</b>											
<i>BTEX - 4 items</i>											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	RMB	03/25/97	1750	99708	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
<b>Extractable Organics</b>											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	0.00	163	330	ug/kg	1.0	DLW	03/27/97	2131	99514	2
Acenaphthylene	U	0.00	163	330	ug/kg	1.0					
Anthracene	U	0.00	163	330	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	163	330	ug/kg	1.0					
Benzo(a)pyrene	U	0.00	163	330	ug/kg	1.0					
Benzo(b)fluoranthene	J	166	163	330	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	163	330	ug/kg	1.0					
Benzo(k)fluoranthene	J	189	163	330	ug/kg	1.0					
Chrysene	J	189	163	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	163	330	ug/kg	1.0					
Fluoranthene	J	224	163	330	ug/kg	1.0					
Fluorene	U	0.00	163	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	163	330	ug/kg	1.0					
Naphthalene	U	0.00	163	330	ug/kg	1.0					
Phenanthrene	U	0.00	163	330	ug/kg	1.0					
Pyrene	J	325	163	330	ug/kg	1.0					
<i>PCB analysis - 7 items</i>											
PCB-1016	U	0.00	33.2	41.6	ug/kg	10.	JPA	03/22/97	0528	99445	3
PCB-1221	U	0.00	33.2	41.6	ug/kg	10.					
PCB-1232	U	0.00	33.2	41.6	ug/kg	10.					
PCB-1242	U	0.00	33.2	41.6	ug/kg	10.					

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 2 of 3

Sample ID : SPORT0380-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
PCB-1248	U	0.00	33.2	41.6	ug/kg	10.					
PCB-1254	U	0.00	33.2	41.6	ug/kg	10.	JPA	03/22/97	0528	99445	3
PCB-1260	U	0.00	33.2	41.6	ug/kg	10.					
<b>Metals Analysis</b>											
Mercury	J	0.0356	0.0154	0.200	mg/kg	1.0	RMJ	03/27/97	1700	99548	N
Silver	U	-110	40.4	952	ug/kg	2.0	MBL	03/28/97	1249	99451	4
Arsenic		4560	263	952	ug/kg	2.0					
Barium		14400	23.5	952	ug/kg	2.0					
Beryllium	J	301	12.9	476	ug/kg	2.0					
Cadmium		520	19.9	476	ug/kg	2.0					
Chromium		26500	59.1	952	ug/kg	2.0					
Nickel		8750	94.8	952	ug/kg	2.0					
Lead		9520	130	476	ug/kg	2.0					
Antimony	J	243	176	952	ug/kg	2.0					
Selenium		835	217	476	ug/kg	2.0					
<b>General Chemistry</b>											
Total Rec. Petro. Hydrocarbons	J	20.0	10.0	50.0	mg/kg	1.0	SLR	03/25/97	1000	99658	5

### The following prep procedures were performed:

GC/MS Base/Neutral Compounds	MCS	03/25/97	1500	99514	6
PCB's	GWL	03/20/97	1652	99445	6
Mercury	CRB	03/21/97	2130	99548	7
TRACE	DVW	03/21/97	1930	99451	8

### Comments:

Volatile Organics contained matrix interferences.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	75.0	(30.0 - 115.)
Nitrobenzene-d5	M610	77.8	(23.0 - 120.)
p-Terphenyl-di4	M610	92.6	(37.3 - 128.)

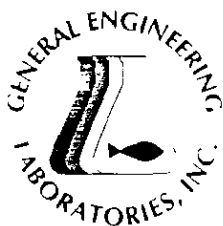
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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 3 of 3

Sample ID : SPORT0380-3

Surrogate Recovery	Test	Percent%	Acceptable Limits
4CMX	PCB	104.	(36.5 - 172.)
Bromofluorobenzene	BTEX-8260	112.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	108.	(63.4 - 136.)
Toluene-d8	BTEX-8260	114.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 8080
M 4	EPA 6010A
M 5	EPA 9071
M 6	EPA 3550
M 7	EPA 7471
M 8	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:


ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed  
in accordance with General Engineering Laboratories  
standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
Reviewed By



[illegible]

**White = sample collector      Yellow = file      Pink = with report**

NPWC 00197

General Engineering I  
2040 Savage Road  
Charleston, South Carolina 29414  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

## CHAIN OF CUSTODY RECORD

Page 1 of 1

9703505

Client Name/Facility Name <b>SPORTENV DETCHASN</b>						SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																	Use F or P in the boxes to indicate whether sample was filtered and/or preserved		
Collected by/Company <b>W. SMALLS</b> <b>SPORTENV DETCHASN</b>																							CCL 26335		
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	PCB's	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	pH	Coliform - specify type	BTEX	PAH	Remarks
01 SPORT 386-1	3/24/97	0835	X	X			4						X								X		X	X	NBCI 7075000101
02 SPORT 386-2	3/24/97	0906	X	X			4						X								X		X	X	NBCI 7075000201
03 SPORT 386-3	3/24/97	0915	X	X			4						X								X		X	X	NBCI 7075000301
04 SPORT 386-4	3/24/97	0925	X	X			4						X								X		X	X	NBCI 7075000401
05 SPORT 386-5	3/24/97	0940	X	X			4						X								X		X	X	NBCI 7075000501
06 SPORT 386-6	3/24/97	0745	X	X			1															X			NBCI 7075000601
																								NOTE: SEE ATTACHED SHEET FOR ACCEPTABLE LIMITS	
Relinquished by:			Date:			Time:			Received by:			Relinquished by:			Date:			Time:			Received by:				
William W. Angoff			3/24/97			1000			John D. McLean			John D. McLean			3/24/97			1530			Catherine L. K.				
Relinquished by:			Date:			Time:			Received by lab by:			Date:			Time:			Remarks:							
Catherine L. K.			3-24-97			1555			Karen Blakeney			3-24-97			1555										

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NIPWF 20197

General Engineering Lab., Inc.  
2040 Savage Road  
Charleston, South Carolina 29414  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

## CHAIN OF CUSTODY RECORD

970,3565

Page 1 of 1[illegible]

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## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1997

Page 2 of 2

Sample ID : SPORT0397-1

M = Method	Method-Description
------------	--------------------

#### Notes:

The qualifiers in this report are defined as follows:

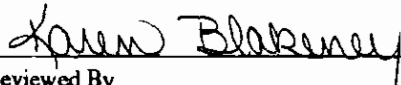
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed  
in accordance with General Engineering Laboratories  
standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
Reviewed By





# GENERAL ENGINEERING LABORATORIES

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1997

Page 2 of 2

Sample ID : SPORT0397-2

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:

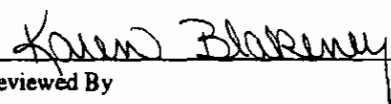
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed  
in accordance with General Engineering Laboratories  
standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
Reviewed By



# CHAIN OF CUSTODY RECORD

923587

General Engineering  
2040 Savage Road  
Charleston, South Carolina 29417  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

Page 1 of 1

Client Name/Facility Name <b>SPORTENVDETCHASN</b>		Collected by/Company <b>SPORTENVDETCHASN</b>		DATE		TIME		WELL		SOIL		CORE		UAS		# OF CONTAINERS		SAMPLE ANALYSIS REQUIRED (X) - see remarks area to specify specific compounds or methods															Remarks	
SAMPLE ID	DATE	TIME	WELL	SOIL	CORE	UAS	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Nitrate	VOC - Specify Method Required	METALS - specify	Pesticides	Herbicides	Total Phosphorus	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks												
01 SPORT 401-1	3/27/97	0955	X	X	X	X	1						X									NBCA 0425000301												
02 SPORT 401-2	3/27/97	1001	X	X	X	X	1						X									NBCA 0425000401												
03 SPORT 401-3	3/27/97	1006	X	X	X	X	1						X									NBCA 0425000501												
04 SPORT 401-4	3/27/97	1011	X	X	X	X	1						X									NBCA 0425000601												
05 SPORT 401-5	3/27/97	1015	X	X	X	X	1						X									NBCA 0425000702												
06 SPORT 401-6	3/27/97	1055	X	X	X	X	1						X									NBCA 0425000801												
07 SPORT 401-7	3/27/97	1059	X	X	X	X	1						X									NBCA 0425000901												
08 SPORT 401-8	3/27/97	1101	X	X	X	X	1						X									NBCA 0425001001												
09 SPORT 401-9	3/27/97	1103	X	X	X	X	1						X									NBCA 0425001101												
10 SPORT 401-10	3/27/97	1106	X	X	X	X	1						X									NBCA 0425001202												
11 SPORT 401-11	3/27/97	1109	X	X	X	X	1						X									NBCA 0425001301												
<p>NOTE: LEVELS 1 PPM ICP-MS only</p>																																		

Relinquished by: <i>[Signature]</i>	Date: 3/27/97	Time: 1120	Received by: <i>[Signature]</i>	Date: 3/27/97	Time: 1410	Relinquished by: <i>[Signature]</i>	Date: 3/27/97	Time: 1510
Relinquished by: <i>[Signature]</i>	Date: 3/27/97	Time: 1510	Received by: <i>[Signature]</i>	Date: 3/27/97	Time: 1510	Relinquished by: <i>[Signature]</i>	Date: 3/27/97	Time: 1510

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## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0268-1

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

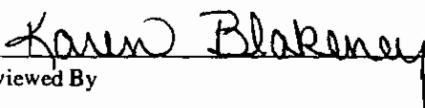
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed  
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standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
Reviewed By





## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0268-2

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

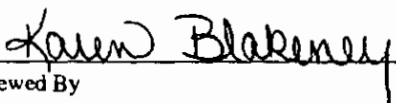
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0268-3

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

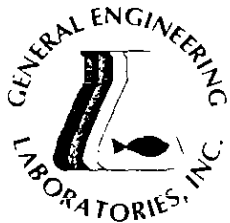
U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87471
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0268-4

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0268-5

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/1
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106  
Contact: Mr. Bill Hiers  
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0268-6

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0268-7

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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STATE	GEL	EPI
FL	E87156/87294	E87472
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0268-9

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

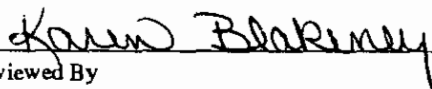
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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STATE	GEL	EPI
FL	E87156/87294	E87472/
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106  
Contact: Mr. Bill Hiers  
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0268-10

M = Method	Method-Description
M 6	EPA 7471
M 7	EPA 3050

#### Notes:

The qualifiers in this report are defined as follows:


ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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FL	E87156/87294	E87472
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106  
Contact: Mr. Bill Hiers  
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0268-11

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106  
Contact: Mr. Bill Hiers  
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 18, 1996

Page 2 of 2

Sample ID : SPORT0268-12

M = Method	Method-Description
------------	--------------------

#### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Karen Blakeney  
Reviewed By





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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 31, 1996

Page 3 of 3

Sample ID : SPORT0268-8

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

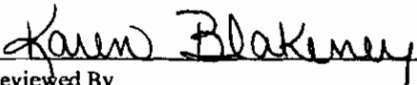
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Reviewed By



NPWC 00196

General Engineering I  
2040 Savage Road  
Charleston, South Carolina 29414  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

## CHAIN OF CUSTODY RECORD

Page 1 of 1

9612237

Client Name/Facility Name SPORTENV DETCHASN				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods														Use F or P in the boxes to indicate whether sample was filtered and/or preserved													
Collected by/Company SPORTENV DETCHASN																		CCL 24734													
SAMPLE ID	DATE	TIME	WELL	SOIL	COINP	GRAB	# OF CONTAINERS	pH conductivity	TOC/DOC	TOX /	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	PESTICIDES	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	TPH	Cyanide	Coliform - specify type	BTEX PLUS NAPHTHALENE	PAH	Remarks						
-01	SPORT 268-1	12/11/96	09:31	X	X		4							X							X		X	X	NBCH653501501	32 wind 12/11					
-02	SPORT 268-2	12/11/96	09:29	X	X		4							X							X		X	X	NBCH653501601						
-03	SPORT 268-3	12/11/96	09:51	X	X		4							X							X		X	X	NBCH653501701						
-04	SPORT 268-4	12/11/96	09:57	X	X		4							X							X		X	X	NBCH653502001						
-05	SPORT 268-5	12/11/96	10:07	X	X		4							X							X		X	X	NBCH653502101						
-06	SPORT 268-6	12/11/96	10:23	X	X		4							X							X		X	X	NBCH653502201						
-07	SPORT 268-7	12/11/96	13:02	X	X		4							X							X		X	X	NBCH653502401						
-08	SPORT 268-8	12/11/96	13:10	X	X		4							X							X		X	X	NBCH653502701						
-09	SPORT 268-9	12/11/96	13:19	X	X		4							X							X		X	X	NBCH653502801						
-10	SPORT 268-10	12/11/96	13:32	X	X		4							X							X		X	X	NBCH653502901						
-11	SPORT 268-11	12/11/96	13:30	X	X		4							X							X		X	X	NBCH653503001						
-12	SPORT 268-12	12/11/96	0751	X	X		3																X		NBCH653503300 VOA653 TRIP BLANK						
Relinquished by: William W. Moore				Date: 12/11/96		Time: 1419		Received by: T. S. Moore				Date: 12/11/96				Time: 1520		Remarks: Karen Blakney				Relinquished by: T. S. Moore				Date: 12/11/96		Time: 1520		Remarks:	

White = sample collector

Yellow = file

Pink = with report

653



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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0265-5

M = Method	Method-Description
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

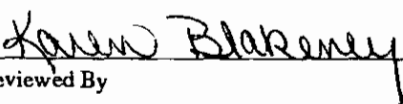
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Reviewed By





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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0265-4

M = Method	Method-Description
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

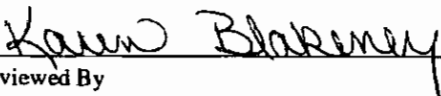
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
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1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0265-3

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

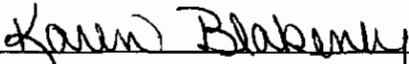
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID : SPORT0265-1

### M = Method

### Method-Description

M 6	EPA 7471
M 7	EPA 3050

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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STATE	GEL	EPI
FL	E87156/87294	E87472
NC	233	
SC	10120	10582
TN	02934	02934

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SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 18, 1996

Page 2 of 2

Sample ID : SPORT0265-6

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:

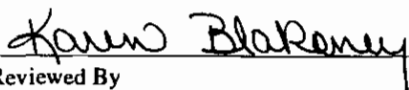
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed  
in accordance with General Engineering Laboratories  
standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
Reviewed By



NF 20196

General Engineering & Services, Inc.  
 2040 Savage Road  
 Charleston, South Carolina 29414  
 P.O. Box 30712  
 Charleston, South Carolina 29417  
 (803) 556-8171

## CHAIN OF CUSTODY RECORD

Page 1 of 1

9612234

LBB

Client Name/Facility Name <b>SPORTENV DETCHASN</b>				SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																	Use F or P in the boxes to indicate whether sample was filtered and/or preserved	
Collected by/Company <b>SPORTENV DETCHASN</b>				# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	TPH	Cyanide	Coliform - specify type	BTEX PLUS NAPHTHALENS	PAH	Remarks
SAMPLE ID	DATE	TIME	WELL																			
-01 SPORT 265-1	12/10/96	12:59	X	X	4						X						X			X	X	NBCH6535001806
-02 SPORT 265-2	12/10/96	13:22	X	X	4						X						X			X	X	NBCH6535001906
-03 SPORT 265-3	12/10/96	13:40	X	X	4						X						X			X	X	NBCH6535002306
-04 SPORT 265-4	12/10/96	13:57	X	X	4						X						X			X	X	NBCH6535002506
-05 SPORT 265-5	12/10/96	14:13	X	X	4						X						X			X	X	NBCH6535002606
-06 SPORT 265-6	12/14/96	11:00	X	X	3														X			VOA 653 TRIP BLANK NBCH653T 003100
Relinquished by: <i>William W. Adams</i>				Date: 12/10/96	Time: 14:55	Received by: <i>John Blaney</i>				Date: 12/11/96	Time: 15:20	Relinquished by: <i>John Blaney</i>				Date: 12/11/96	Time: 15:20	Received by: <i>John Blaney</i>				
Relinquished by: <i>William W. Adams</i>				Date: 12/11/96	Time: 15:20	Received by: <i>John Blaney</i>				Date: 12/11/96	Time: 15:20	Relinquished by: <i>John Blaney</i>				Date: 12/11/96	Time: 15:20	Received by: <i>John Blaney</i>				

White = sample collector

Yellow = file

Pink = with report



## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

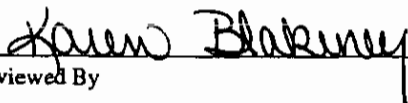
Page 3 of 3

Sample ID : SPORT0450-1

M = Method

Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
Reviewed By





## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

Page 3 of 3

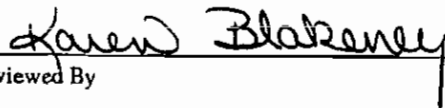
Sample ID : SPORT0450-2

M = Method

Method-Description

This data report has been prepared and reviewed  
in accordance with General Engineering Laboratories  
standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

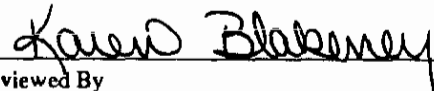
Report Date: June 02, 1997

Page 3 of 3

Sample ID : SPORT0450-3

M = Method	Method-Description
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standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
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## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

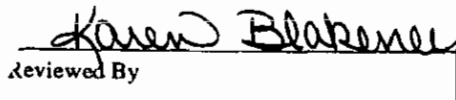
Report Date: June 02, 1997

Page 3 of 3

Sample ID : SPORT0450-4

M = Method	Method-Description
------------	--------------------

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## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997


Page 3 of 3

Sample ID : SPORT0450-5

### M = Method

### Method-Description

This data report has been prepared and reviewed  
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standard operating procedures. Please direct  
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## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

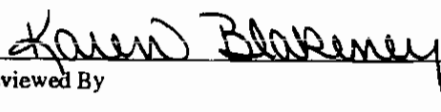
Page 3 of 3

Sample ID : SPORT0450-6

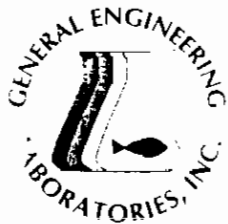
M = Method

Method-Description

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## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

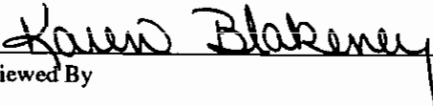
Page 3 of 3

Sample ID : SPORT0450-7

### M = Method

### Method-Description

This data report has been prepared and reviewed  
in accordance with General Engineering Laboratories  
standard operating procedures. Please direct  
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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

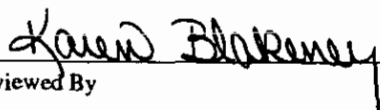
Page 3 of 3

Sample ID : SPORT0450-8

### M = Method

### Method-Description

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

Page 3 of 3

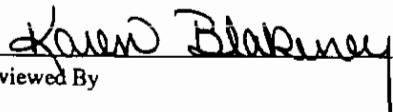
Sample ID : SPORT0450-9

### M = Method

### Method-Description

This data report has been prepared and reviewed  
in accordance with General Engineering Laboratories  
standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By







## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

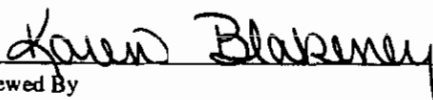
Page 3 of 3

Sample ID : SPORT0450-10

### M = Method

### Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106  
Contact: Mr. Bill Hiers  
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

Page 2 of 2

Sample ID : SPORT0450-11

M = Method	Method-Description
------------	--------------------

#### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Reviewed By

*Karen Blakeney*



W000197

General Engineering L...ies, Inc.  
2040 Savage Road  
Charleston, South Carolina 29414  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

# CHAIN OF CUSTODY RECORD

9705567

Page 1 of 1

Client Name/Facility Name <b>SPORTEN V DETCHASN</b>						SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods																		Use F or P in the boxes to indicate whether sample was filtered and/or preserved					
Collected by/Company <b>SPORTEN V DETCHASN</b>																								27354					
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH	conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	BTX/PAH	PAH	Remarks			
01 SP0RT450-1	5/22/97	10:25				X	2																	X	X	NBCH6535003400			
02 SP0RT450-2	5/22/97	10:35				X	2																	X	X	NBCH6535003500			
03 SP0RT450-3	5/22/97	10:48				X	2																	X	X	NBCH6535003600			
04 SP0RT450-4	5/22/97	10:55				X	2																	X	X	NBCH6535003700			
05 SP0RT450-5	5/22/97	11:00				X	2																	X	X	NBCH6535003800			
06 SP0RT450-6	5/22/97	11:05				X	2																	X	X	NBCH6535003900			
07 SP0RT450-7	5/22/97	11:10				X	2																	X	X	NBCH6535004000			
08 SP0RT450-8	5/22/97	11:15				X	2																	X	X	NBCH6535004100			
09 SP0RT450-9	5/22/97	11:21				X	2																	X	X	NBCH6535004200			
10 SP0RT450-10	5/22/97	11:30				X	2																	X	X	NBCH6535004300			
11 SP0RT450-11	5/22/97	11:30				X	1																	X		NBCH6535004400 NOA SOIL TRIP BLANK			
NOTE! SEE ATTACHED SHEET FOR ACCEPTANCE LIMITS.																													
Relinquished by: <b>William W. Smalls</b>			Date: 5/22/97		Time: 12:55		Received by: <b>W.R. Hiers, Jr.</b>			Date: 5/22/97		Time: 14:50		Relinquished by: <b>W.R. Hiers, Jr.</b>			Date: 5/22/97		Time: 15:15		Received by: <b>Lee R. Mac</b>			Date: 5/22/97		Time: 15:15		Remarks: <b>5-2297 (15)</b>	

White = sample collector      Yellow = file      Pink = with report



45



## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID : SPORT-0189-1R 9610068-01

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:

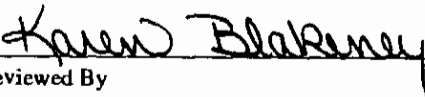
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed  
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standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
Reviewed By





## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID : SPORT-0189-2R 9610068-03

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

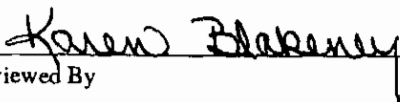
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID : SPORT-0189-3R 9610068-05

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Reviewed By

*Karen Blakeney*





## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID : SPORT-0189-4R 9610068-08

M = Method	Method-Description
------------	--------------------

#### Notes:

The qualifiers in this report are defined as follows:

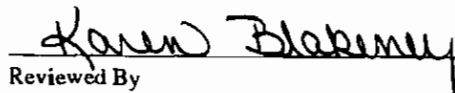
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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standard operating procedures. Please direct  
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Reviewed By





## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID : SPORT-0189-5R 9610068-09

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

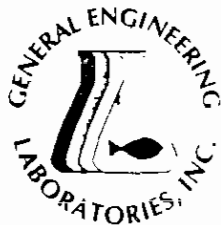
U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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standard operating procedures. Please direct  
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Karen Blakeney  
Reviewed By





## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID : SPORT-0189-6R 9610068-12

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:


ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed  
in accordance with General Engineering Laboratories  
standard operating procedures. Please direct  
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
Reviewed By





## GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID : SPORT-0189-7R 9610068-13

M = Method

Method-Description

#### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

f indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID : SPORT-0189-8R 9610068-16

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:

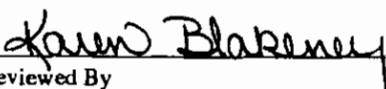
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TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106  
Contact: Mr. Bill Hiers  
Project Description: SUPSHIP-Portsmouth Detachment

ec: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID : SPORT-0189-9R 9610068-17

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

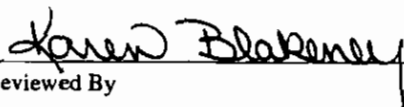
I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

indicates that the analyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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standard operating procedures. Please direct  
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Reviewed By





7013 110-000196

SPORT 0221

General Engineering Laboratories, Inc.  
2040 Savage Road  
Charleston, South Carolina 29414  
PO Box 30712  
Charleston, South Carolina 29417  
803-556-8171

# CHAIN OF CUSTODY RECORD

Page 1 of 1

9610530

Client Name / Facility Name <b>SUPSHIP</b>				SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods															Use F or P in the boxes to indicate whether sample was filtered and/or preserved	
Collected By / Company				# of containers	pH, conductivity	TOC / DOC	TOX	Chloride, Fluoride, Sulfate	Nitrate/Nitrite	VOC - Specify Method required	METALS - specify	Pesticides	Herbicides	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Remarks
SAMPLE ID	DATE	TIME	WELL																	
01 SPORT 0189-1 R 9610068-01	10/2/96	0910	X	X							X									RCRA Metals plus Sb, Be, Ni
02 SPORT 0189-2 R 9610068-03	10/2/96	0920	X							X										
03 SPORT 0189-3 R 9610068-05	10/2/96	0935	X							X										
04 SPORT 0189-4 R 9610068-08	10/2/96	0945	X							X										
05 SPORT 0189-5 R 9610068-09	10/2/96	0954	X							X										
06 SPORT 0189-6 R 9610068-12	10/2/96	1008	X							X										
07 SPORT 0189-7 R 9610068-13	10/2/96	1019	X							X										
08 SPORT 0189-8 R 9610068-16	10/2/96	1027	X							X										
09 SPORT 0189-9 R 9610068-17	10/2/96	1035	X							X										
Relinquished by:				Date	Time	Received by:				Relinquished by:				Date	Time	Received by:				
Relinquished by:				Date	Time	Received by lab by:				Date	Time	Remarks:								

White - sample collector Yellow - file Pink -

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# CHAIN OF CUSTODY RECORD

Page 1 of 1 9610068

General Engineering Laboratories, Inc.  
2040 Savage Road  
Charleston, South Ca. 14  
P.O. Box 30712  
Charleston, South Carolina 29417  
(803) 556-8171

Client Name/Facility Name <b>SPORTENY DETCHASN</b>						SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods																Use F or P in the boxes to indicate whether sample was filtered and/or preserved	
Collected by/Company <b>SPORTENY DETCHASN</b>																							
SAMPLE ID	DATE	TIME	WELL	SOIL	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX -ED	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	PESTICIDES - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	TPH	Remarks
SPORT#189-1	10/2/96	910		X		3			X				X									X	NBCH6535000600
SPORT#189-2	10/2/96	920		X		3			X				X									X	NBCH6535000700
SPORT#189-3	10/2/96	935		X		3			X				X									X	NBCH6535000800
SPORT#189-4	10/2/96	945		X		3			X				X									X	NBCH6535000900
SPORT#189-5	10/2/96	954		X		3			X				X									X	NBCH6535001000
SPORT#189-6	10/2/96	1008		X		3			X				X									X	NBCH6535001100
SPORT#189-7	10/2/96	1019		X		3			X				X									X	NBCH6535001200
SPORT#189-8	10/2/96	1027		X		3			X				X									X	NBCH6535001300
SPORT#189-9	10/2/96	1035		X		3			X				X									X	NBCH6535001400
Relinquished by: <i>W.R. Hiery, Jr.</i>						Date:	Time:	Received by: <i>W.R. Hiery, Jr.</i>						Date:	Time:	Received by: <i>Du K. 1 N...</i>							
Relinquished by: <i>W.R. Hiery, Jr.</i>						Date:	Time:	Received by: <i>W.R. Hiery, Jr.</i>						Date:	Time:	Received by: <i>W.R. Hiery, Jr.</i>							

White = sample collector    Yellow = file    Pink = with report



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### Laboratory Certifications

STATE	GEL	EPI
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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 14, 1996

Page 2 of 2

Sample ID : SPORT0189-2

M = Method

Method-Description

### Notes:

The qualifiers in this report are defined as follows:

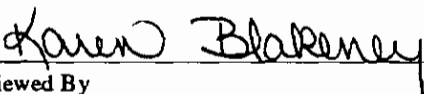
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Reviewed By



**SWMU 159**

# CHAIN OF CUSTODY RECORD

Page 3 of 3

Summa 159

Client Name/Facility Name <u>SPORTENVDETCHASN</u>				SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods																	Use F or P in the boxes to indicate whether sample was filtered and/or preserved										
Collected by/Company <u>SPORTENVDETCHASN</u>																															
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	Staph	PAH	Remarks						
SPORT0164-1	9/17/96	0930	X	X			2																X	X	NBCH159S000101						
SPORT0164-2	9/17/96	0940	X	X			2																X	X	NBCH159S000201						
SPORT0164-3	9/17/96	0955	X	X			2																X	X	NBCH159S000301						
SPORT0164-4	9/17/96	1000	X	X			2																X	X	NBCH159S000401						
SPORT0164-5	9/17/96	1009	X	X			2																X	X	NBCH159S000502						
SPORT0164-6	9/17/96	1018	X	X			2																X	X	NBCH159S000601						
SPORT0164-7	9/17/96	1024	X	X			2																X	X	NBCH159S000701						
SPORT0164-8	9/17/96	1032	X	X			2																X	X	NBCH159S000801						
SPORT0164-9	9/17/96	1039	X	X			2																X	X	NBCH159S000901						
SPORT0164-10	9/17/96	1050	X	X			2																X	X	NBCH159S001002						
SPORT0164-11	9-18-96	0925	X	X			2																X	X	NBCH159S001101						
SPORT0164-12	9/17/96	1056	X	X			2																X	X	NBCH159S001201						
SPORT0164-13	9/18/96	0740	X	X			2																X	X	NBCH159S001301 NBCH159S001301 with 9/18/96						
Relinquished by: <u>William W. Smith</u>				Date: <u>9/18/96</u>				Time: <u>1245</u>				Received by: <u>John A. McLean Jr.</u>				Relinquished by: <u>John A. McLean Jr.</u>				Date: <u>9/19/96</u>				Time: <u>1453</u>				Received by: <u>Catherine L. L.</u>			
Relinquished by:				Date:				Time:				Received by lab by:				Date:				Time:				Remarks:							

White = sample collector      Yellow = file      Pink = with report



# CHAIN OF CUSTODY RECORD

Page 2 of 3

SWMU 159

Client Name/Facility Name <b>SPORTENV DETCHASN</b>						SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods																		Use F or P in the boxes to indicate whether sample was filtered and/or preserved		Remarks	
Collected by/Company <b>SPORTENV DETCHASN</b>						pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	BTEX & NAPTH	PAH					
SAMPLE ID	DATE	TIME	WELL	SOIL	GRAB	# OF CONTAINERS																					
SPORT0164-14	9/17/96	1105	X	X		2														X	X	NBCH1595001401					
SPORT0164-15	9/18/96	1000	X	X		2														X	X	NBCH1595001501					
SPORT0164-16	9/18/96	1010	X	X		2														X	X	NBCH1595001602					
SPORT0164-17	9/18/96	1020	X	X		2														X	X	NBCH1595001701					
SPORT0164-18	9/18/96	1032	X	X		2														X	X	NBCH1595001801					
SPORT0164-19	9/17/96	1110	X	X		2														X	X	NBCH1595001903					
SPORT0164-20	9-18-96	1045	X	X		2														X	X	NBCH1595002001					
SPORT0164-21	9-18-96	1057	X	X		2														X	X	NBCH1595002101					
SPORT0164-22	9-18-96	1107	X	X		2														X	X	NBCH1595002201					
SPORT0164-23	9-18-96	1118	X	X		2														X	X	NBCH1595002301					
SPORT0164-24	9-18-96	1130	X	X		2														X	X	NBCH1595002403					
SPORT0164-25	9-18-96	1118	X	X		2														X	X	NBCH1595002501					
SPORT0164-26	9/18/96	0750	X	X		2														X	X	NBCH1595001301					
Relinquished by: <i>William L. Anville</i>			Date: 9/18/96			Time: 12:45			Received by: <i>Paul A. V... ..</i>					Relinquished by: <i>...</i>					Date: 9/18/96			Time: 1:05			Received by: <i>Catharine...</i>		
Relinquished by:			Date:			Time:			Received by lab by:					Date:					Time:			Remarks:					

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SWMU 159

**White = sample collector      Yellow = file      Pink = with report**

[illegible]

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[illegible]

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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934



Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 1 of 2

Sample ID : SPORT0219-1  
Lab ID : 9610544-01  
Matrix : Soil  
Date Collected : 10/25/96  
Date Received : 10/25/96  
Priority : Routine  
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Mercury	J	0.0203	0.00231	0.200	mg/kg	1.0	RMJ	10/28/96	2137	92944	
Silver	U	42.6	244	980	ug/kg	2.0	NRM	10/31/96	1837	92887	
Arsenic		4220	182	980	ug/kg	2.0					
Barium		14600	6.50	980	ug/kg	2.0					
Beryllium	J	341	1.12	490	ug/kg	2.0					
Cadmium	U	-40.5	9.51	490	ug/kg	2.0					
Chromium		17900	58.4	980	ug/kg	2.0					
Nickel		5050	79.1	980	ug/kg	2.0					
Lead		11100	111	490	ug/kg	2.0					
Antimony	U	-646	93.9	980	ug/kg	2.0					
Selenium		794	140	490	ug/kg	2.0					
<b>General Chemistry</b>											
Total Rec. Petro. Hydrocarbons	J	20.0	10.0	50.0	mg/kg	1.0	TSM	10/28/96	1000	92916	2
Extractable Organic Halides	J	8.25	4.83	15.0	mg/kg	1.0	SJ	10/29/96	1525	92929	3

### The following prep procedures were performed:

Mercury	RMJ	10/28/96	1600	92944	4
TRACE	FGD	10/29/96	1500	92887	5

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 9071
M 3	GEL
M 4	EPA 7471
M 5	EPA 3050





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SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 1 of 2

Sample ID : SPORT0219-1  
Lab ID : 9610544-02  
Matrix : TCLP  
Date Collected : 10/25/96  
Date Received : 10/25/96  
Priority : Routine  
Collector : Client

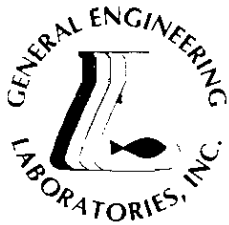
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Silver	U	-0.00931	0.00780	0.500	mg/l	1.0	JSS	10/31/96	1233	93018	
Arsenic	U	-0.161	0.0421	0.500	mg/l	1.0					
Barium	J	0.109	0.00220	10.0	mg/l	1.0					
Cadmium	U	0.00201	0.00330	0.100	mg/l	1.0					
Chromium	U	0.00384	0.00420	0.500	mg/l	1.0					
Lead	U	0.0247	0.0364	0.500	mg/l	1.0					
Selenium	U	-0.0309	0.0841	0.300	mg/l	1.0					
Mercury	U	-0.000280	0.000148	0.0200	mg/l	1.0	RMJ	10/31/96	1540	93078	2

### The following prep procedures were performed:

ICP	FGD	10/30/96	1730	93018	3
Mercury	RMJ	10/30/96	1430	93078	4
TCLP Prep for Metals	JL	10/28/96	1435	92934	5

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7471
M 3	EPA 3005
M 4	EPA 7470
M 5	EPA 1311





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1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID : SPORT0219-1

M = Method	Method-Description
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#### Notes:

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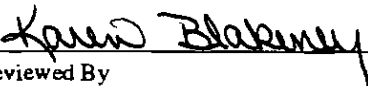
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